# TIMELINE Z

VOLUME 8 ISSUE 03 MARCH 1990 $1.50

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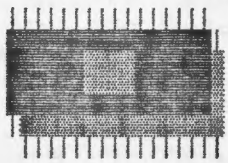
## VIEW FROM RAMTOP



Not much to report this month. I am sad to say that another fine TIMEXsinclair club has gone the way side. BoSTUG of The Boston Computer Society mailed out their last newsletter. They decided to break up the group for the same reasons any group would dispand. We will surely miss them. Eight years ago BoSTUG was the major force in the establishment of the BCS according to Peter Hale, editor of the BoSTUG Newsletter. Peter states that the QL users have started an independent New England Sinclair QL User Group (NESQLUG) that will continue support in the area and produce a quarterly newsletter at the same address as before with a $10.00 annual fee for membership. Contact is:

Richard Taylor
309 Holly Circle
Tiverton, RI 02878

Don't forget the 1990 SINCLAIR COMPUTER EXPOSITION presented by S.M.U.G. this June 2 & 3 in Milwaukee, Wisconsin. There will be seminars, door prizes, swap shop, software, peripherals, hardware, and lots of other stuff.

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Waukesha, WI

FOR MORE INFORMATION CONTACT:

Bill Heberlein
5052 N. 91st Street
Milwaukee, WI 53225

>> OR <<

Neal Schultz
call 7 - 10 pm
(414) 353-4522

Support For
sinclair
ZX81 - spectrum - QL
and
TIMEXsinclair
1000 - 1500 - 2068
CAMBRIDGE
Z 88
computers

## THE WIDJUP Co. PART III (final)

I have enclosed my printed circuit board CAD program for SHAREWARE distribution throughout your membership groups and others. You be the judge about how an advanced application can be supported by the much maligned, but phoenix-like the TIMEXsinclair 2068.

CAD#3.B1 sidesteps around TIMEX barriers which many deny exist. All I can say is: "You mean I can't do THIS?". THIS is impressive!

When I made the ROM BYPASS and simple MEMORY BANK SWITCHING public domain, I included the design of the WIDJUP PRIMARY ADAPTOR and a proposed standard for back-planes. This design completes the data required to add back-planes (and all the power that gives) to that inherently SUPERIOR computer.

Even without BANK SWITCHING or IBM BUSS COMPATIBILITY, all existing hardware can be simply adapted to plug in. New hardware, like half way decent parallel interfaces, can be made with two edges. One edge plugs in for the minimum bus configuration -- the other for IBM compatibility with BANK SWITCHING. The adaptor is compatible with existing hardware, but new products would better be consistent with the new standard.

For those who have tight budgets (or fists), the entire investment to implement a back-plane is less than $90 for the minimum configuration. That for IBM compatibility will be somewhat more, but the savings through the use of clone boards makes that trivial.

The buss driver card is the only item not yet detailed. For the minimum system, all the design data has already been given.

The figures show both of the PRIMARY ADAPTOR. These were generated using CAD#3.B1 using PUBLIC DOMAIN data files donated in the interests of TS2068 users everywhere. The board uses plated through hole technology. Though not recommended, the files can be edited to produce a "stiched" board with more holes and pads. Also possible is a single sided layout with many jumpers. Suit yourself.

The only active circuit on the board is the 74LS11 chip which completes address decoding for the TS2040 or modified ZX printer. This makes all the formerly interfering I/O addresses available for new uses.

TT II MM EE LL II NN EE ZZ

# TIMEXsinclair user group News-Magazine

SUPPORT FOR:

TIMEXsinclair's
1000, 1500, 2068

Sinclair's
ZX Spectrum+ 128K
Quantum Leap (QL)

Cambridge's Z88

# FRONT PAGE

PRINTED USING sinclair QL PROFESSIONAL COMPUTER AND THIS PROGRAM.

DESK-TOP PUBLISHING
FOR THE SINCLAIR QL

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T/S-SVU: Bill Miller-SincLink
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**Printing - Decollating - Mailing**
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Pacifica, CA 94044
ATTN: George Mockridge

Back issues of **TIMELINEZ**, 7/83 thru 12/87 Contact Bill Miller at:

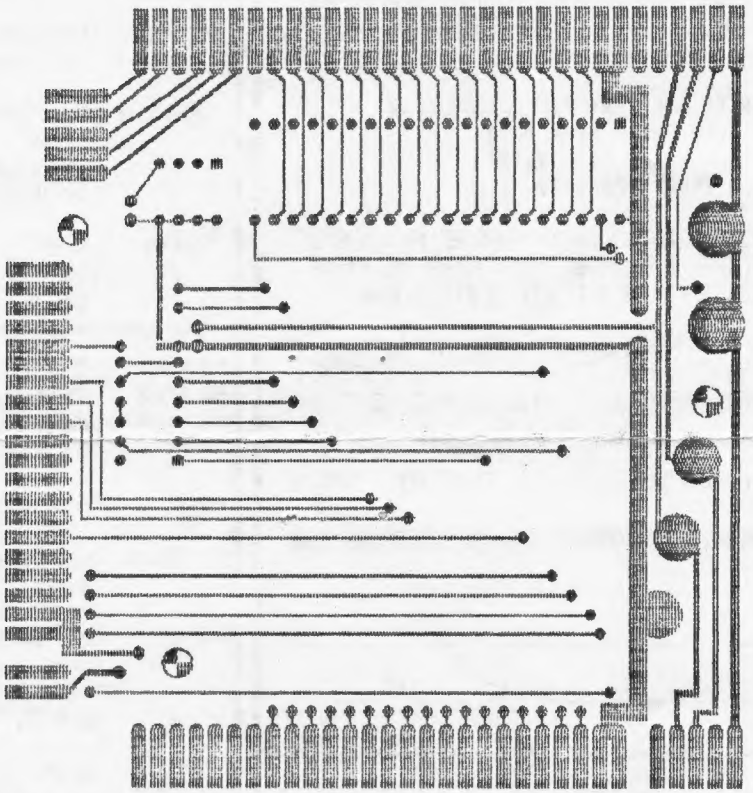
SincLink
6675 Clifford Drive
Cupertino, CA 95014

Issues 1/88 - present, contact your editor at **American Micro.**

The PDSE Library is now available to all; covering T/S1000-1500, T/S 2068, Spectrum and the QL.
Contact **American Micro** for further details.

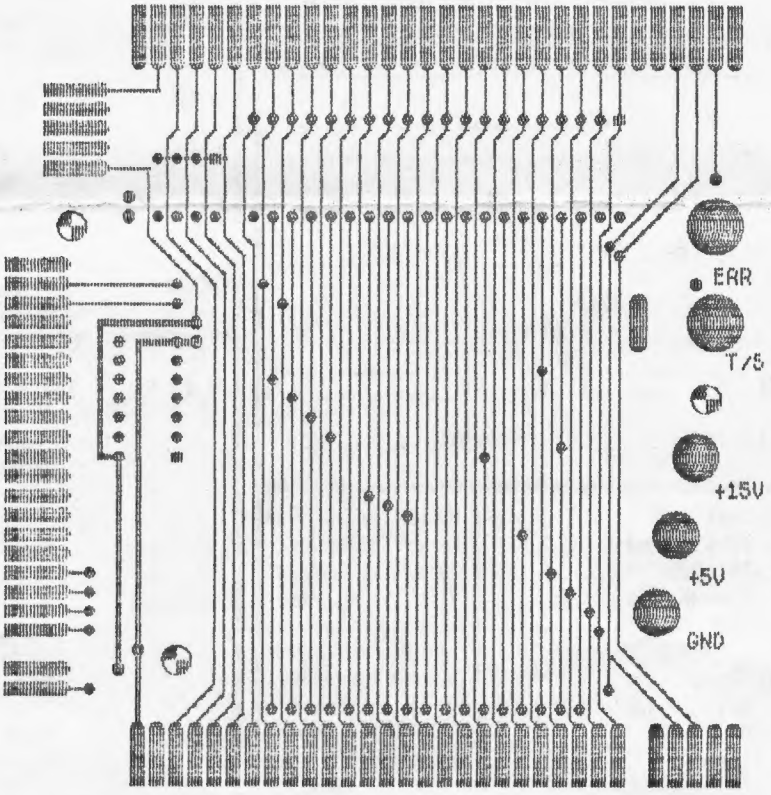
3 "

VIDJUP PRIMARY ADAPTOR
SOLDER SIDE
Part # 3867-02



3 "

VIDJUP PRIMARY ADAPTOR
COMPONENT SIDE
Part # 3867-03



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HAPPY COMPUTING.....THE EDITORS

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MAKE/MODEL (YOURS)_____

IS IT YOUR FIRST? YES_____NO_____

COMPUTER EXPERIENCE (YEARS)_____(MONTHS)_____

PROGRAMMING INTERESTS ARE?
BASIC_____ASSEMBLY_____
FORTH_____MACHINE CODE_____
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KNOWLEDGE: SOFTWARE_____HARDWARE_____

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NOTE: The Mini File Server BBS has been supporting the Unix files system since it's start. It is strickly an U/D load BBS via X-modem or ASCII. For further information, please contact Bill Miller.

**PUG**

Peninsula User Group
311 Michelle Lane
Daly City, CA 94015
(415) 878-1773

President: George Mockridge
Host: Walt Johnson

Support for:
-TIMEXsinclair's 1000/1500/2068
-Cambridge Z88
-Sinclair's Spectrum +128K and QL

Meetings: Third Sunday of each month, 1:30 pm
Peninsula Hospital
1783 El Camino Real
Burlingame, CA

Dates:
March 18, 1990
April 22, 1990 ==>> ONE WEEK LATER DUE TO EASTER DAY ON 15th
May 20, 1990
June 17, 1990

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6675 Clifford Drive
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Bring your equipment down access ramp Leading to bottom of circular building

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May 16, 1990 . . . . . 3rd Wednesday
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(813) 546-4278

Hosts: Eric Best, George Featherman, Warren Reed

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**TSC Sig TCU**

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(408) 739-3977

SIG Host: Mark Wahl

Meetings: Every Saturday morning at 10:00 am
Stanford University
Jordon Hall (in the Quad)
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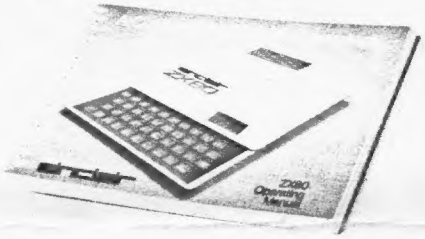

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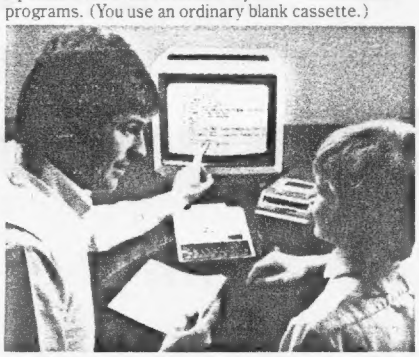

The ZX80 is a family learning aid. Children 10 and above will quickly understand the principles of computing—and have fun learning.

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Address _____

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Occupation _____ Age _____

Intended use of ZX80 _____

Have you ever used a computer? ☐ Yes ☐ No Do you own another personal computer? ☐ Yes ☐ No

PO-3-1

[illegible] WIDJUP Primary Adaptor
PROVIDES

1. Connection of your TS2068 to a back-plane expansion board, available on the clone market.

2. An RGB MONITOR edge take-off.

3. An EXTENDER edge which can accept either the usual TIMEX, or common 70/72 pin closed-end type connectors with a key.

4. An edge for connecting your TS2040 or modified ZX printer. (The full address is decoded.)

5. Jacks for EAR and Tape/Sound.

(MORE)

[illegible]

6. Terminals for GND and IOA5 for DR. STRANGEQUARK'S SUPER-DUPER JOY GENERATOR, a joy-stick port interface adaptor; or for TAPE motor control.

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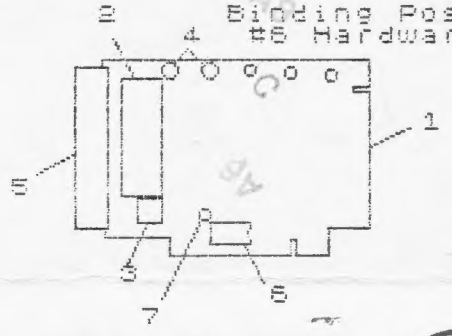


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